



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H090133-B

Mode: Highway

Status: Submitted

NC-87

From/Cross Street: SR 1730 (Elwell Ferry Road) in Bladen County

Specific Improvement Type: 1 - Widen Existing Roadway

To: NC 11 in Columbus County

Project Category: Statewide Mobility

Length: 9.81

TIP#: R-2561B

Fully Funded in Draft STIP? No

Cost to NCDOT: \$49,800,000

Description:

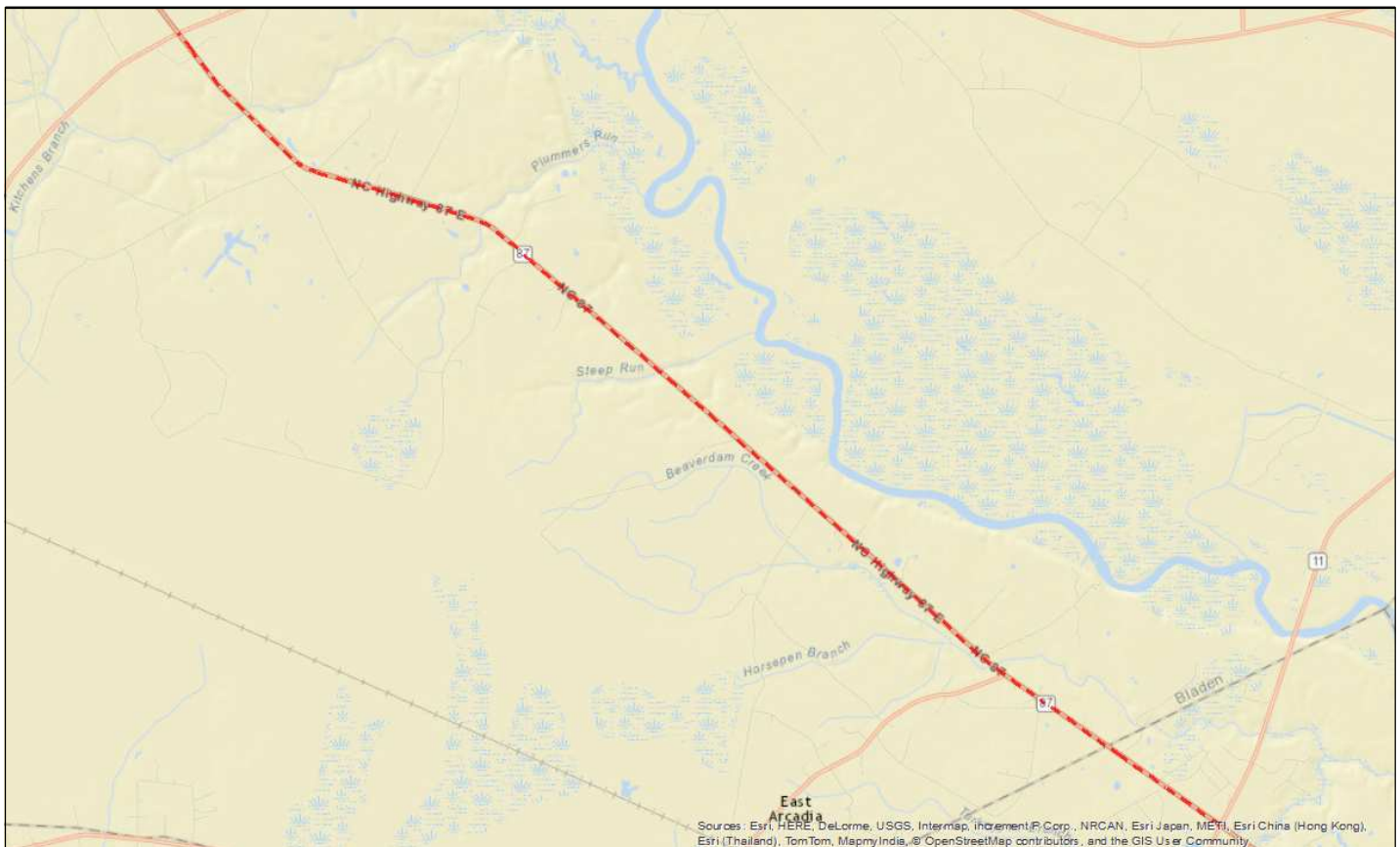
Widen to Multi-Lanes.

Division(s): Division 6

County(s): BLADEN, COLUMBUS

MPOS(s)/RPO(s): Mid-Carolina RPO, Cape Fear RPO

Project Location



Statewide Mobility Total Score: 12.7

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Safety (10%) 59.41 Economic Competitiveness (10%) 0.11 Multimodal + [Freight & Military] (20%) 8.86 [Travel Time] Benefit/Cost (30%) 0.03 Congestion (V/C) (30%) 16.57	N/A	N/A
Totals: Weight: 100% Weighted Score: 12.7		

Regional Impact Total Score: 26.15

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (25%) 16.57 Safety (10%) 59.41 [Travel Time] Benefit/Cost (25%) 0.03 Accessibility / Connectivity (10%) 25.64	Percent: 15% Points: 0	Percent: 15% Points: 90
Totals: Weight: 70% Weighted Score: 12.65		

Division Needs Total Score: 9.26

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (20%) 16.57 Safety (10%) 59.41 [Travel Time] Benefit/Cost (20%) 0.03	Percent: 25% Points: 0	Percent: 25% Points: 0
Totals: Weight: 50% Weighted Score: 9.26		

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	55
Length (miles):	9.81
Facility Type:	Two Lane Highway
Access Control:	None
Functional Classification:	Minor Arterial
Terrain Type:	Level
Lane Width:	12
Paved Shoulder Width:	4
Roadway has Curb & Gutter?	No
Volume (AADT):	3880.25
Capacity:	15500
Volume/Capacity Ratio:	0.25
% Autos:	87%
% Trucks:	13%
Truck Volume:	519.49
Crash Density:	61.64
Crash Severity:	61.78
Critical Crash Rate:	54.84
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	1
Non-Interstate STRAHNET Route?	Yes
Average Commuting Time:	27
Existing Median Type (for Cost Estimation):	Undivided
Pavement Condition Rating:	92
Actual Congested Speed:	49.8
Travel Time Index:	1.1

Project Benefits

Project Cross-Section:	4A - 4 Lane Divided (46' Depressed Median) with Paved Shoulders
Speed Limit:	55
Length (miles):	9.81
Facility Type:	Multi-Lane Highway
Access Control:	Partial
Functional Classification:	Other Principal Arterial
Terrain Type:	Level
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	0
Travel Time Savings for 30 Years (Total):	53957.47
Travel Time Savings for 30 Years (Autos):	46733.54
Travel Time Savings for 30 Years (Trucks):	7223.93
Long-Term Employment:	1
% Change in Economy:	1.16E-06
Provides Direct Connection to Transportation Terminal?	No
Does project upgrade how the roadway functions?	Yes
In CTP or LRTP?	No
CTP/LRTP Name:	
CTP/LRTP Completion Year:	
Submitted by:	Division 6

* Data reflects calculations which include weighted averages (where applicable) and represent raw output from the Department's SPOT OnLine tool and associated databases.

Project Ownership**Division**

Division	Percent	Regional Impact	Division Needs
Division 6	100%	0	0
	0%	0	0
	0%	0	0
TOTAL Division Points		0	0

MPO/RPO

MPO/RPO	Percent	Regional Impact	Division Needs
Mid-Carolina RPO	90%	90	0
Cape Fear RPO	10%	0	0
	0%	0	0
TOTAL MPO/RPO Points		90	0

Project Cost and Source

Construction Cost:	\$36,800,000	TIP Unit
Right-of-Way Cost:	\$12,000,000	TIP Unit
Utilities Cost:	\$1,000,000	TIP Unit
Total Project Cost:	\$49,800,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$49,800,000	